

***DEMAILLY-KOLLÁR CONTINUITY ON KLT PAIRS, AND
APPLICATIONS TO ALPHA AND DELTA INVARIANTS***

Speaker: Kewei Zhang
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Time: Fri., Sep. 11th, 9:30-11:00

Venue: Room 102, SCMS

Abstract: We establish a Demailly-Kollár type continuity theorem for plurisubharmonic functions with respect to adapted measures on normal complex analytic klt pairs. As applications, we prove the equality of the analytic and divisorial versions of the alpha and delta invariants on compact normal Kähler klt pairs. These identities have geometric consequences. The equality for the delta invariant yields a Yau--Tian--Donaldson type divisorial criterion for the solvability of twisted Kähler-Einstein equations in big cohomology classes on varieties that is not necessarily of Fano type. This talk is based on my AI-assisted joint work with T. Darvas.